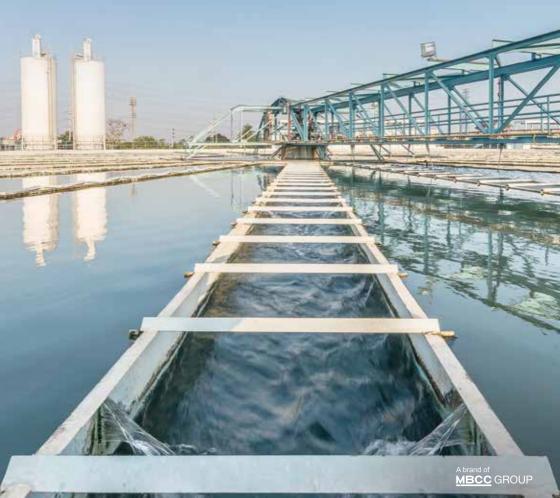




MasterSeal 7000 CR

Chemical Resistance Guide





MasterSeal 7000 CR-Durable Concrete Protection Even under Extreme Conditions

MasterSeal 7000 CR is a concrete protection and waterproofing system with a unique combination of application and performance properties designed for challenging environments and facilities that demand a high level of protection and process safety.

The systems high resistance to abrasion and biogenic sulfuric acid corrosion are ideal to withstand the severe conditions that occur in pretreatment and aeration tanks, digesters, or sewers. Its dynamic and static crack-bridging abilities ensure that concrete is protected, even in case of cracks, thus prolonging the structures life cycle.

The chemical resistance table below provides information on the resistance of MasterSeal 7000 CR to a wide variety of chemical / corrosive elements as determined by field experience and laboratory tests. We recommend you to contact your local Master Builders Solutions expert for further advise and support.

	Chemical	Conc.	Temp.	EN 13529	MasterSeal 7000 CR
١.	Acetaldehyde	100	20	DF 7	
	Acetic acid	10	20	DF 9	color change
	Acetic acid	40	20	DF 9a	
	Acetic acid	99 (Glacial)	20	DF 9a	
Ī	Acetic anhydride	100	20	DF 7	
Ī	Acetone	100	20	DF 7	
	Acetophenone	100	20	DF 7a	
	Acrylic acid	100	20	DF 9a	
Ī	Adipic acid	Saturated	20	DF 9a	
	Aluminium sulphate	50	20	DF 12	
	Ammonium hydrogen phosphate	7	40		
	Ammonium hydroxide	28	20		
Ī	Ammonium nitrate	50	20		
	Ammonium sulphate	50	20		
	Amyl acetate	100	20	DF 7	
	Aniline	100	20	DF 13	
	Antifreeze (Ethylene glycol)	100	20	DF 5	

	Chemical	Conc.	Temp.	EN 13529	MasterSeal 7000 CR
В	Benzene	100	20	DF 4a	color change
	Benzoic acid	100	20	DF 9a	
	Benzoyl chloride	100	20	DF 6b	
	Bio diesel (transesterified lipids)	100	20	DF 7b	
	Boric acid	Saturated	20	DF 10	
	Brake fluid (polyglycols)	-	20	DF 5	
	Brine (Sodium chloride)	Saturated	20	DF 12	
	Butanol	100	20	DF 5	
С	Calcium chloride	50	20	DF 12	
	Calcium hydroxide	Saturated	20	DF 11	
	Carbon tetrachloride	100	20	DF 6a	
	Castor oil (fatty acids)	100	20	DF 9a	
	Chlorine Bleaching		50		
	Chlorine water	Saturated	20		
	Chloroacetic acid	10	20	DF 9	color change
	Chloroacetic acid	50	20	DF 9a	
	Chloroform	100	20	DF 6a	
	Citric acid	20	20	DF 9a	
	Citric acid	60	20	DF 9a	
	Copper (II) sulphate	Saturated	20	DF 12	
	Cresols	100	20	DF 9	color change
	Crude oil	-	20	DF 4b	
	Cyclohexane	100	20	DF 4	
D	Decanoic (Capric) acid	100	20	DF 9a	
	Detergents (acidic)	-	20	DF 10	
	Detergents (alkaline)	-	20	DF 11	
	Diethylene glycol	100	20	DF 5	
Е	Ethanol	100	20	DF 5	
	Ethyl acetate	100	20	DF 7	
	Ethyl glycol acetate	100	20	DF 7	
	Ethylene dichloride	100	20	DF 6	
	Ethylene glycol	100	20	DF 5	
F	Formic acid	5	20		
	Formic acid	40	20		
	Fumaric acid	Saturated	20	DF 9a	
G	Gallic acid	100	20	DF 9a	
	Gasoline	-	20	DF 1	
	Glycolic acid	100	20	DF 9a	
Н	Heptanoic acid	100	20	DF 9a	
	Hexane	100	20	DF 4	

	Chemical	Conc.	Temp.	EN 13529	MasterSeal 7000 CR
Ī	Hydrochloric acid	10	20	DF 10	
Ī	Hydrochloric acid	37	20		
Ī	Hydrogen peroxide	30	20		
Ī	Isopropanol	100	20	DF 5	
ľ	Jet fuel	-	20	DF 2	
Ī	Kerosene	-	20	DF 2	
ĺ	Lactic acid	5	20	DF 9	color change
Ī	Lactic acid	25	50		
Ī	Lactic acid	85	20	DF 9a	
ĺ	Magnesium nitrate	50	20	DF 12	
Ī	Maleic acid	30	20	DF 9a	
Ī	Maleic anhydride	100	20	DF 7	
i	Malic acid	50	20	DF 9a	
į	Methacrylic acid	100	20	DF 9a	
Ī	Methanol	100	20	DF 5a	
Ī	Methyl ethyl ketone	100	20	DF 7	
i	Methyl methacrylate	100	20	DF 7	
i	Methyl salicylate	100	20	DF 7a	
f	Methylated spirits	-	20	DF 4	
i	Methylene chloride	100	20	DF 6a	
i	Milk	-	20	DF 9	color change
i	Mineral oils	-	20	DF 3	3
ŀ	Monochlorobenzene	100	20	DF 6b	
i	Motor oil	-	20	DF 3	
i	Nitric acid	5	20	DF 10	
Ì	Nitric acid	30	20		color change
i	Oleic acid	100	20	DF 9a	color change
ì	Oleum (fuming sulfuric acid)	-	20	21 00	
	Oxalic acid	5	20	DF 9	color change
i	Paraffin	-	20	DF 4	color change
Ī	Perchloroethylene	100	20	DF 6	
i	Phenol	5	20	DF 9	color change
	Phenyl sulphuric acid	10	20	DF 9	color change
	Phosphoric acid	5	20	DF 10	color change
	Phosphoric acid	50	20	DI IU	
į	Phosphoric acid	85	20		color change
į	Picric acid	10	20	DF 9	color change
į					color change
l	Picric acid	50	20	DF 9a	
ŀ	Potassium hydroxide Propylene glycol	100	20	DF 5	

	Chemical	Conc.	Temp.	EN 13529	MasterSeal 7000 CR
s	Salicylic acid	Saturated	20	DF 9a	
	Silage water (3% milk + 1.5% vinegar +0.5% butyric acid)		40		
	Sodium chloride	Saturated	20	DF 12	
	Sodium hydroxide	20	20	DF 11	
	Sodium hydroxide	50	20		
	Sodium hydroxide	50	60		
	Sodium hypochlorite	15	20		
	Styrene	100	20	DF 4	
	Sulphuric acid	20	20	DF 10	
	Sulphuric acid	30	60		
	Sulphuric acid	50	20		
	Sulphuric acid	98	20		
Т	Tar oil	-	20	DF 4	
	Tartaric acid	Saturated	20	DF 9	color change
	Tetrahydrofuran	100	20	DF 15	
	Thioglycolic acid	100	20	DF 9a	
	Toluene	100	20	DF 4	
	Toluene sulphonic acid	100	20	DF 9a	
	Trichloroacetic acid	100	20	DF 9a	
	Trichlorobenzene	100	20	DF 6b	
	Trichloroethylene	100	20	DF 6	
	Turpentine	-	20	DF 4	
U	Urea	35	20	DF 12	
W	Waste water	-	20		
	Water (destilled)	100	40		
	White spirit	-	20	DF 4	
Х	Xylene	100	20	DF 4	

Rating Descriptions

not resistant
max. 72 h resistance
good chemical resista

good chemical resistance, suitable for permanent contact

high chemical resistance, suitable for permanent immersion (up to 1 bar pressure)

Please note:

For a more accurate data on the long-term resistance, please check the hardness reduction given on the TDS.

General remark: Overall performance of MasterSeal 7000 CR is subject to reasonable standards of checks and cleaning.



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Complete solutions for air entrained concrete

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Solutions for concrete strengthening

MasterCast

Solutions for the manufactured concrete product industry

MasterCem

Solutions for cement manufacture

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Low viscosity for high performance concrete

MasterEmaco

Solutions for concrete repair

MasterFinish

Solutions for formwork treatment and surface improvement

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Solutions for precision grouting

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Comprehensive solutions for fiber reinforced concrete

MasterGlenium

Solutions for high performance concrete

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Solutions for concrete injection

MasterKure

Solutions for concrete curing

MasterLife

Solutions for enhanced durability

MasterMatrix

Advanced rheology control for concrete

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Solutions for set control

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Solutions for extraordinary workability retention

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